

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 1. (currently amended) A method for individualizing a
2 hearing aid in adaptation to a loudness perception of an
3 individual, said method ~~consisting of the following~~ comprising
4 the steps of:

- 5 - ~~measurement~~ measuring and quantifying ~~quantification by~~
6 ~~parameters of the~~ loudness perception parameters of
7 the individual, weighted by a first factor;
8 - weighting of a normal loudness perception ~~and its~~
9 parameters by a second factor;

10 combining the weighted loudness perception parameters of
11 the individual with the weighted normal loudness
12 perception parameters to define a weighted loudness
13 parameter; and use of the weighted loudness
14 ~~perception and its parameters~~
15 using the weighted loudness parameter for adjusting the
16 hearing aid.

1 2. (previously presented) The method as in claim 1,
2 wherein compression and/or amplification is/are adjusted in
3 the hearing aid, for which purpose the compression and,
4 respectively, the amplification are each determined as a
5 function of frequency.

1 3. (currently amended) ~~The~~ A method ~~as in claim 2,~~ for
2 individualizing a hearing aid in adaptation to a loudness
3 perception of an individual, said method comprising the steps

4 of:

5 adjusting the hearing aid using one or both of (1)
6 measured and quantified loudness perception
7 parameters of the individual weighted by a first
8 factor and (2) normal loudness perception parameters
9 weighted by a second factor; and
10 adjusting compression and/or amplification in the hearing
11 aid, for which purpose the compression and,
12 respectively, the amplification are each determined
13 as a function of frequency, wherein
14 for determining the compression, the loudness perception
15 of the individual is quantified by means of a
16 HVLS/LOHL factor which is determined by loudness
17 scaling at a minimum of one frequency.

1 4. (currently amended) The method as in claim 3, wherein
2 the HVLS/LOHL factor is modeled using the equation $\log_{10}(\alpha) =$
3 $a_a \times HV/HL + b_a \times \log(HV/HL) + VP_{\text{consta}}$ where

4 [-] α = a gradient of the loudness function,

5 [-] HV/HL = a hearing loss in dB,

6 [-] a_a, b_a = constant function parameter, and

7 [-] VP_{consta} ~~VP_{consta}~~ = an individual function parameter
8 which adapts the HVLS/LOHL factor to data sampling points $\alpha_1,$
9 $\alpha_2, \alpha_3, \dots,$

10 and that VP_{consta} is determined on the basis of a
11 loudness scaling performed at a minimum of one frequency.

1 5. (previously presented) The method as in claim 2,
2 wherein for determining the amplification, the loudness

3 perception of the individual is quantified by means of an
4 HVL0/HLL0 factor which is defined by loudness scaling at a
5 minimum of one frequency.

1 6. (previously presented) The method as in claim 5,
2 wherein the HVL0/HLL0 factor is modeled using the equation

$$L_0 = a_L \times HV/HL + b_L \times \log(HV/HL) + VP_{constL},$$

4 where

5 [-] L_0 = a level of loudness=0,

6 [-] HV/HL = a hearing loss in dB,

7 [-] a_L, b_L = a constant function parameter, and

8 [-] VP_{constL} = an individual function parameter

9 which adapts the HL0/HLL0 function to the data sampling points

10 $L_{01}, L_{02}, L_{03}, \dots,$

11 and that VP_{constL} is determined on the basis of a
12 loudness scaling performed at a minimum of one frequency.

1 7. (currently amended) The method as in one of the claims
2 4 to 6 and 11, wherein the hearing loss is used for
3 determining the frequencies at which loudness scaling is
4 performed.

1 8. (currently amended) The method as in one of the claims
2 3 to 6 and 10 to 11, wherein the value of the weighted factors
3 depends on the assumed and/or determined accuracy of the
4 loudness scaling data.

1 9. (currently amended) The method as in claim 8, further
2 comprising the selection of a value of $2/3$ $1/3$ for the first
3 factor and/or a value of $1/3$ $2/3$ for the second factor.

1 10. (new) The method as in claim 2, wherein, for
2 determining the compression, the loudness perception of the
3 individual is quantified by means of a HVLS/LOHL factor which
4 is determined by loudness scaling at a minimum of one
5 frequency.

1 11. (new) The method as in claim 10, wherein the
2 HVLS/LOHL factor is modeled using the equation $\log_{10}(\alpha) = a_a \times$
3 $HV/HL + b_a \times \log(HV/HL) + VP_{consta}$ where

4 [-] α = a gradient of the loudness function,

5 [-] HV/HL = a hearing loss in dB,

6 [-] a_a, b_a = constant function parameter, and

7 [-] VP_{consta} ~~VP_{consta}~~ = an individual function parameter
8 which adapts the HVLS/LOHL factor to data sampling points $\alpha_1,$
9 $\alpha_2, \alpha_3, \dots,$

10 and that VP_{consta} is determined on the basis of a
11 loudness scaling performed at a minimum of one frequency.

1 12. (new) The method as in claim 1, further comprising
2 the selection of a value of 2/3 for the first factor and/or a
3 value of 1/3 for the second factor.